



PHERKARD TECH'S TVI® MULTI-CHAMBER LINE

THE PREMIUM DRYING SOLUTION FOR SMEs IN FOOD & NUTRACEUTICALS

WHY INVEST

- **Accessible CAPEX** starting from €1.6M (6 chambers) with **payback < 3 years** (depending on product type)
- **High margins:** EBITDA €1.17M/year · ****IRR > 40%**¹**
- **Compact layout** < 180 m² — fits in existing industrial buildings
- **Raw material valorization:** up to **+€980/t added value** from fresh fruit & vegetables — including second-grade produce

TECHNICAL PERFORMANCE

- **Premium product quality** (color, vitamins, aroma superior to freeze-drying & spray-drying)
- **Final moisture < 5%**
- **Energy efficiency²:** ≤ 3 kWh/kg (–45% vs hot-air drying)
- **Modular & scalable:** from 2 to 12 chambers → For higher volumes, see **TVI® PIPELINE LINE**

AT A GLANCE — ECONOMIC MODEL (5 DAYS/WEEK × 16 HRS OPERATION)

Indicator	6 chambers	8 chambers
Net cash flow (after 28% tax)	€0.84M/year	€1.18M/year
Payback	< 3 years	< 3 years
IRR (based on CAPEX & CF)	~44%	~45%
EBITDA	€1.16M/year	€1.63M/year
Avg. revenues (@ €24.7/kg)	€2.30M/year	€3.09M/year
Total OPEX	€1.12M/year	€1.45M/year
Annual output (powder)	93 t	125 t
CAPEX	€1.6M	€2.2M

OPERATIONAL ADVANTAGES

- **Mixed recipes:** fruits, vegetables, botanicals, fibers — batch changeover ≈ 4 h
- **Integrated CIP,** AISI 304 stainless steel, roughness ≤ 0.8 μm
- Designed for **HACCP, ISO 22000, IFS Food** compliance
- **Condensed water (99% purity)** reusable in-plant
- **Single or multi-product production simultaneously**
- **Raw material input:** ≈ 2.6 t/day (6 chambers) · ≈ 3.6 t/day (8 chambers)

WHO CHOOSES US

- **SMEs (€5–50M turnover)** seeking to internalize clean-label ingredient production
- **Co-packers** for sport nutrition, baby food, and natural cosmetics
- **Fresh-cut producers (4th/5th range)** with surplus to valorise

CONTACTS

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¹ Based on: average product price €24.7/kg, yield 16%, energy cost €0.25/kWh, raw material cost €0.75/kg (Costs based on Italian market data)

² Typical energy consumption: 1.8–3 kWh/kg depending on the product